

BOVINE TUBERCULOSIS

Protecting the health of your cattle

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Minnesota Board of Animal Health

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Recent Developments...

- Feb. 19, 2008 the 11th beef cattle herd was detected
- Continue to find infected herds in small, localized area in NW Minnesota
- 4 infected herds detected in 12 months
- Expect USDA to change state's status soon

Board of Animal Health's GOALS:

- Help minimize the impact this change will have on the industry.
- Obtain split state status as quickly as possible.
- Committed to eliminating TB to regain Free Status again.

MN History...



- Attained TB Free Status in 1970's
- TB Free for 30 years
- 1st herd found in 2005

Bovine Tuberculosis

- Caused by slow-growing bacteria
 - *Mycobacterium bovis*
- Organism thrives in moist, cool environment.
- Wide range of species susceptible.
 - Primary hosts: cattle, bison & cervids.
- Spread from animal to animal.

TB in Cattle

- Chronic disease.
- Long incubation period.
- Causes wasting and respiratory disease.
- **Most of the time, there are NO signs!**



Caudal Fold Test



****Remember: Vet must be MN TB Certified to do CFT.**

Comparative Cervical Test



COMPARATIVE CERVICAL, TUBERCULIN TEST RESULTS					
NAME OF HERD OWNER <i>(Last, First, Middle Initial)</i>			ADDRESS <i>(Including Zip Code)</i>		
COMPARATIVE TEST		INJECTION DATE		PRIOR CAUDAL TEST	
NUMBER TESTED		NUMBER TESTED		DATE INJECTED	
COMPARATIVE REAGENT		OBSERVATION DAYS		NEG.	REV.
<input type="checkbox"/> 1ST	<input type="checkbox"/> 2ND	<input type="checkbox"/> 3RD		SUB.	REA.
NAME OF VETERINARIAN			TITLE	DATE	

BOVINE
(Tuberculin Response in Millimeters)

VE FORM 6-290
(NOV 77)

PART 1 STATE - REGAL CHIX

Necropsy



Bovine TB Lesions



Laboratory tests: Culture and PCR

Helpful Hints for TB testing:

■ PLAN AHEAD

- Test at least 10-14 days ahead
 - We expect 1-5% responders to CFT
 - All CFT responders must be rechecked by State/Federal Vet (CCT)
 - (CCT suspects could take 4-6 weeks to clear up)
- Herd Test: All animals 12 months & older (plus any cattle not born on the farm)
- At this time there is no TB testing requirements to move cattle **WITHIN** the state.



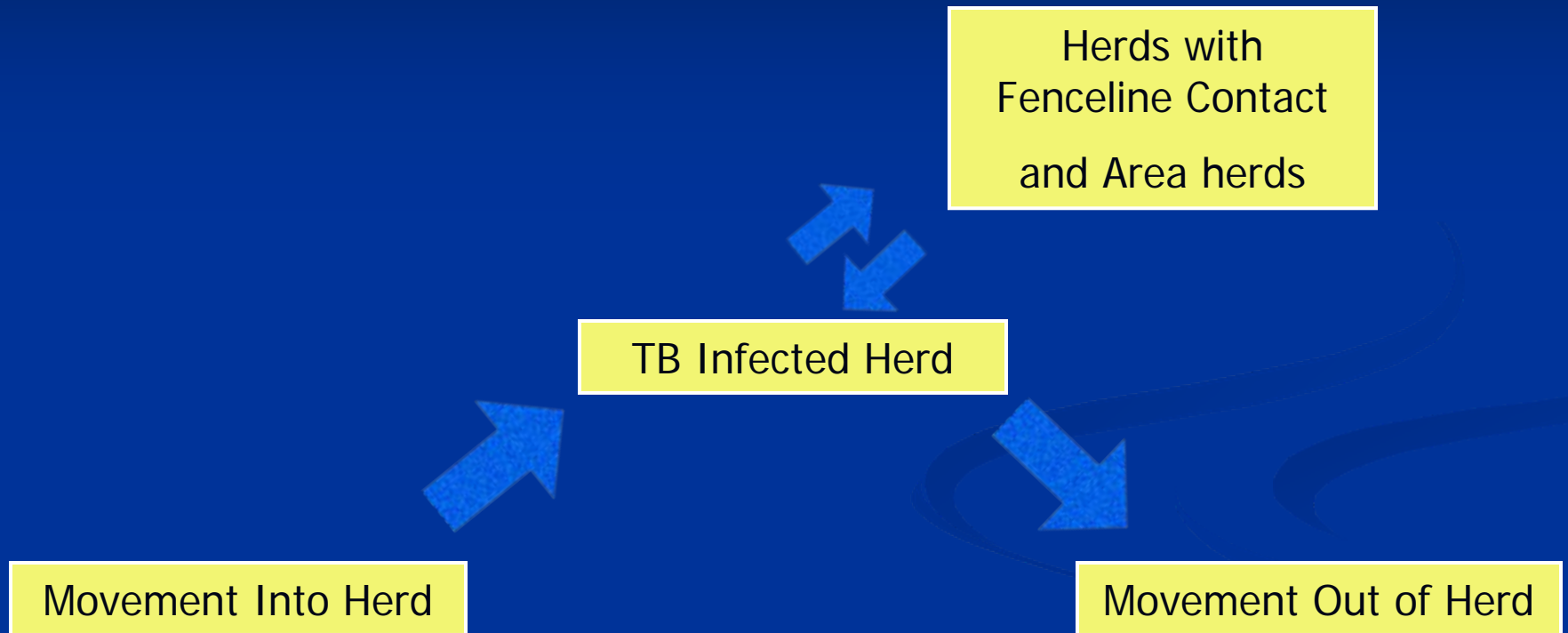
First Infected Herd in Skime

Thief River

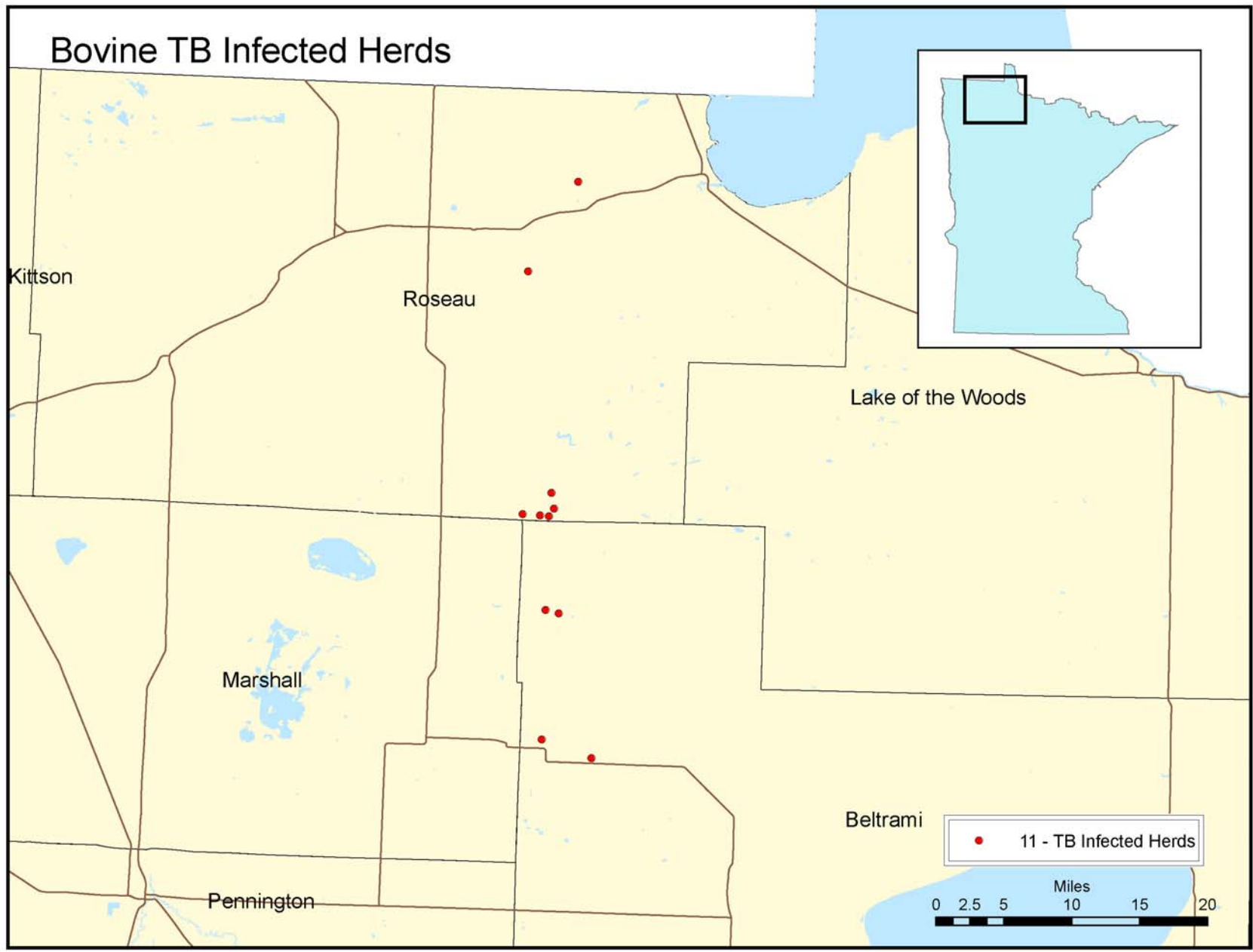


UNITED STATES

TB Investigation



Bovine TB Infected Herds



Minnesota's TB Status

•Accredited-Free (AF)
•Modified Accredited Advanced (MAA)
•Modified Accredited (MA)
•Accreditation Preparatory (AP)
•Nonaccredited (NA)

Current Status

Future Status



Federal Interstate Movement

MAA

MA

Breeding cattle	Negative TB test	Negative TB test Whole herd test
Feeder cattle	No restrictions	Negative TB test
PMO Pasteurized Milk Ord.	No restrictions	Annual test or other Surveil Plan

***Slaughter Cattle: No test required if moved directly to Fed/State Inspected Slaughter plant.**

Shipping Requirements

- Contact veterinarian BEFORE shipping to determine requirements.
- **Must meet both state and federal shipping requirements.**



Shipping Requirements (con't)

- NOTE:
 - States may change their requirements before we are officially downgraded
 - North Dakota
 - Requirements may change, so check each time.



TB Herd Accreditation

MAA

MA

Initial requirements	2 negative whole herds tests 12 mo apart	Same as MAA
Animals included in herd test	All cattle 18 mo of age and older and any age animal not born on farm or from accredited herd	All cattle 12 mo of age and older and any age animal if not born on farm or from accredited herd
Frequency of herd tests after accreditation	Every 24 mo	Every 12 mo

Note: There are also requirements for herd additions.

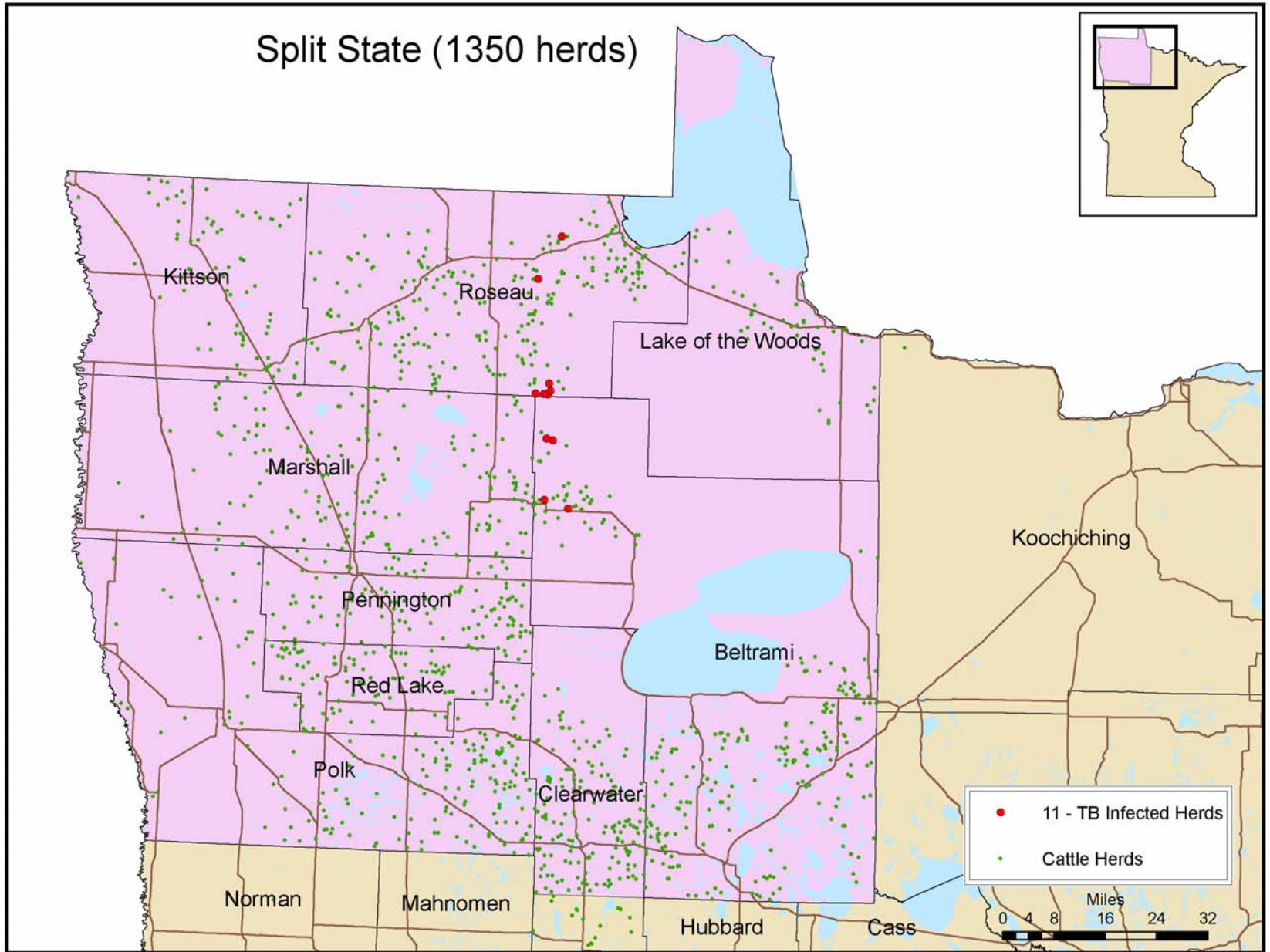
Split State Status

- The Board passed a motion on 2/13/08 to pursue split state status.
- Benefits:
 - Part of state would remain MA and majority would be upgraded back to MAA.
 - Majority of the state would be spared the extra movement restrictions.

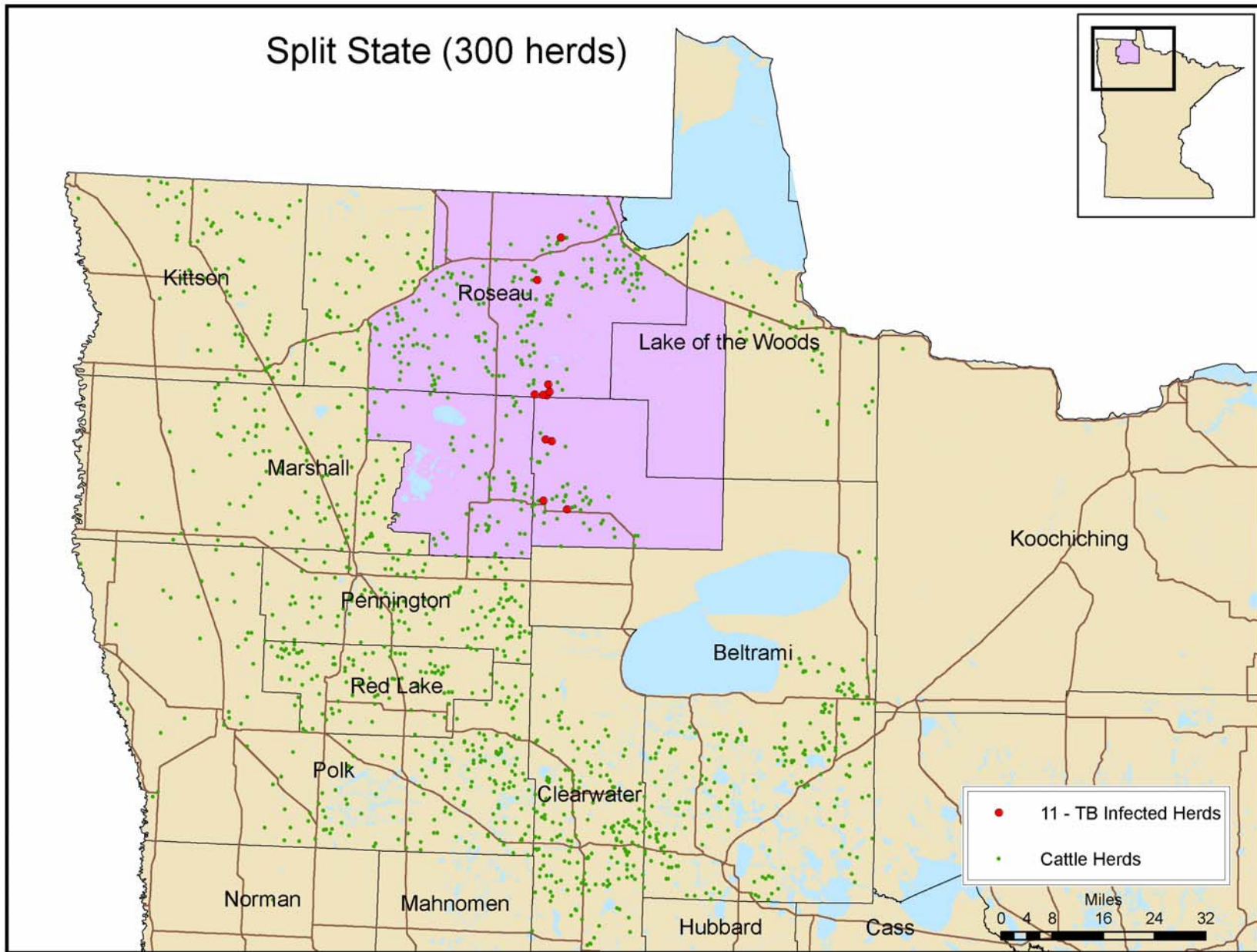
Borders:

- to be determined; requires USDA approval.
- Several Options. (Goal: encompass the disease but not be overreaching)

Split State (1350 herds)



Split State (300 herds)



Split State Status (con't)

- What is involved?
 - Risk Assessment by USDA to develop guidelines
 - Implement guidelines
 - Identification, movement, sale barns, testing
 - Application for Split State Status
 - Approval by USDA – MOU
- Time frame:
 - Michigan took 1 year to achieve split state, at a cost of \$3 million.

Is there any money for testing?



- No Federal Funds
 - USDA does not fund export testing
 - (only Tracing and Area Testing)
- State of MN has offered a TAX CREDIT since 2006 to recoup ½ of testing costs.
 - See Dept of Revenue website for more info

In Summary:



- Our TB Status will be downgraded by USDA from MAA to MA.
- Our goal is to minimize the impact this change will have on the industry.
- It will require more testing to export.
- We will be pursuing split state status.
- We are committed to eliminating TB.

What can you do to help?



- Test cattle.
- Implement good biosecurity.
- Keep good movement records.
- **If moving cattle, verify shipping requirements!**

For more information ...

- Your herd veterinarian
- District veterinarian
- Board of Animal Health,
651-201-6831 or
1-877-668-2373
- For more information on TB,
investigation updates, and the agency, visit
the Board's website at www.bah.state.mn.us.

